

In the Claims

1. (currently amended) An air data pressure probe comprising:
a body section, having an end formed as a hemispherical tip portion, said body section being substantially cylindrical and having a diameter that is not less than a diameter of the end;
a central conduit, extending longitudinally through said body section toward the hemispherical tip portion; and
an inlet port, located in the hemispherical tip portion and communicating with said central conduit having an air inlet end and an air outlet end, said inlet port having a longitudinal cross section that is circular, the diameter of the circular cross section of the air outlet end being smaller than the diameter of the circular cross section of the air inlet end.
2. (original) The air data pressure probe of claim 1 wherein said inlet port is formed as a frusto-conical section.
3. (original) The air data pressure probe of claim 1 wherein said inlet port further comprises convex side portions extending from the air inlet end to the air outlet end.
4. (original) The air data pressure probe of claim 1 wherein said inlet port further comprises concave side portions extending from the air inlet end to the air outlet end.
5. (original) The air data pressure probe of claim 1 further comprising a heater for de-icing the air data pressure probe.
6. (original) The air data pressure probe of claim 5 wherein said heater is located in the hemispherical tip portion.

7. (original) The air data pressure probe of claim 5 wherein said heater surrounds said inlet port.
8. (original) The air data pressure probe of claim 1 further comprising at least two conduits each conduit being located on opposite sides of the central conduit and each conduit having a respective inlet port.
9. (original) The air data pressure probe of claim 8 wherein the respective inlet ports of said at least two conduits are located in the hemispherical tip portion.
10. (currently amended) An air data pressure probe comprising:
 - a body section, having a hemispherical tip portion, said body section being substantially cylindrical and having a diameter that is not less than a diameter of the end;
 - a central conduit, extending through said body section and toward the hemispherical tip portion;
 - an inlet port having an air inlet end, and an air outlet end that connected to said central conduit, said inlet port having a longitudinal cross section that is circular; and
 - a heater, located in the hemispherical tip portion, for de-icing the air data pressure probe;
 - wherein a diameter of the circular cross section of the air outlet end is smaller than a diameter of the circular cross section of the air inlet end such that said inlet port tapers down from the air inlet end toward the air outlet end.
11. (original) The air data pressure probe of claim 10 wherein said inlet port is formed as a frusto-conical section.
12. (original) The air data pressure probe of claim 10 wherein said inlet port further comprises convex side portions extending from the air inlet end to the air outlet end.

13. (original) The air data pressure probe of claim 10 wherein said inlet port further comprises concave side portions extending from the air inlet end to the air outlet end.

14. (original) The air data pressure probe of claim 10 further comprising at least two conduits each conduit being located on opposite sides of the central conduit and each conduit having a respective inlet port.

15. (original) The air data pressure probe of claim 14 wherein the respective inlet ports of said at least two conduits are located in the hemispherical tip portion.

16. (currently amended) A method for providing an air data pressure probe comprising the steps of:

providing a substantially cylindrical body section;

forming an end of the body section as a hemispherical tip portion having a diameter that is not greater than a diameter of the body section;

extending a central conduit longitudinally through the body section;

providing an inlet port having an air inlet end and an air outlet end in the hemispherical tip portion;

forming the inlet port to have a longitudinal cross section that is circular with a diameter of the circular cross section of the air outlet end being smaller than the diameter of the circular cross section of the air inlet end; and

connecting the air inlet end of the inlet port to the central conduit.

17. (original) The method of claim 16 wherein said inlet port is formed as a frusto-conical section.

18. (original) The method of claim 16 wherein said inlet port further comprises convex side portions extending from the air inlet end to the air outlet end.

19. (original) The method of claim 16 wherein said inlet port further comprises concave side portions extending from the air inlet end to the air outlet end.

20. (currently amended) The method of claim 40 16 further comprising the step of locating a heater in the hemispherical tip portion of the air data pressure probe for de-icing.

21. (currently amended) The method of claim 40 16 further comprising the steps of:
 locating at least two conduits opposite each other and on opposite sides of the central conduit; and
 providing a respective inlet port for each conduit in the hemispherical tip portion of the air data pressure probe.